COMPUTER-COMPONENT POWER-CONSUMPTION MONITORING AND CONTROL

ABSTRACT OF THE INVENTION

An apparatus for regulating power allocated to components within a computer system includes a sensor to sense power drawn by a first device within a computer system, the first device having device resources needed to satisfy functional demand required of the first device. A second sensor is provided to sense power drawn by a second device within the computer system, the second device having device resources needed to satisfy functional demand required of the second device. A power-monitoring module is provided to monitor the power drawn and the functional demand required of the first and second devices. A system control module, operably connected to the power-monitoring modules, is provided to regulate power allocated to the first and second devices by optimizing use of the device resources in accordance with the temperature, power drawn, and respective functional demands of the devices.

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